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Header 1

[List View](#)

General Information

[Contact](#)
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Procurement Folder: 1486815

SO Doc Code: CEOI

Procurement Type: Central Purchase Order

SO Dept: 0603

Vendor ID: 000000209931

SO Doc ID: ADJ2500000002

Legal Name: NEW RIVER ENGINEERS INC

Published Date: 8/9/24

Alias/DBA:

Close Date: 8/22/24

Total Bid: \$0.00

Close Time: 13:30

Response Date: 08/22/2024

Status: Closed

Response Time: 11:34

Solicitation Description: Waterline Utility Upgrade-Design Camp Dawson

Responded By User ID: kparker

Total of Header Attachments: 1

Total of All Attachments: 1

First Name: Mackenzie

Last Name: Parker

Email: kp@nreivv.com

Phone: 3043427168



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Solicitation Response

Proc Folder: 1486815
Solicitation Description: Waterline Utility Upgrade-Design Camp Dawson
Proc Type: Central Purchase Order

Solicitation Closes	Solicitation Response	Version
2024-08-22 13:30	SR 0603 ESR08222400000001401	1

VENDOR
000000209931
NEW RIVER ENGINEERS INC

Solicitation Number: CEOI 0603 ADJ2500000002
Total Bid: 0
Response Date: 2024-08-22
Response Time: 11:34:33
Comments:

FOR INFORMATION CONTACT THE BUYER

David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor Signature X	FEIN#	DATE
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All offers subject to all terms and conditions contained in this solicitation

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	Waterline Utility Upgrade Design Camp Dawson				0.00

Comm Code	Manufacturer	Specification	Model #
81101508			

Commodity Line Comments:

Extended Description:

Provide professional architectural and engineering design services per the attached documentation.



Department of Administration
Purchasing Division
2019 Washington Street East
Post Office Box 50130
Charleston, WV 25305-0130

State of West Virginia
Centralized Expression of Interest

Proc Folder: 1486815

Doc Description: Waterline Utility Upgrade-Design Camp Dawson

Reason for Modification:

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version
2024-08-09	2024-08-22 13:30	CEOI 0603 ADJ2500000002	1

BID RECEIVING LOCATION

BID CLERK
DEPARTMENT OF ADMINISTRATION
PURCHASING DIVISION
2019 WASHINGTON ST E
CHARLESTON WV 25305
US

VENDOR

Vendor Customer Code:

Vendor Name : New River Engineers, Inc

Address :

Street : 3041 University Ave, Suite 6

City : Morgantown

State : WV

Country : USA

Zip : 26505

Principal Contact : Jessie O. Parker, Jr., P.E., CEO

Vendor Contact Phone: 304-342-7168

Extension:

FOR INFORMATION CONTACT THE BUYER

David H Pauline
304-558-0067
david.h.pauline@wv.gov

Vendor
Signature X

FEIN# 55-076054

DATE 8/21/2024

All offers subject to all terms and conditions contained in this solicitation

New River Engineers, Inc.



August 21, 2024

Department of Administration
Purchasing Division
2019 Washington Street E
Charleston, WV 25305

Re: Expression of Interest – Engineering Services
Camp Dawson Waterline Utility Upgrade

To Whom it May Concern:

We are pleased to submit our statement of qualifications for providing professional engineering services on the above referenced project(s).

New River Engineers, Inc. (NREI) is a highly qualified and experienced environmental / civil engineering firm providing services for municipal, federal, state, industrial and commercial clients throughout the states of West Virginia, Ohio, Kentucky, and Virginia.

For over 43 years NREI has a history of completing projects on time, under budget and without any successful litigation against us or our client, a record no other firm can match.

We would appreciate an opportunity to present our detailed qualifications at a mutually convenient date and time.

Please call if you have any questions or need further information.

Very Truly Yours,

NEW RIVER ENGINEERS, INC.

Jessie O. Parker, Jr., P.E.,
CEO
Email: jop@nreiwv.com

Enclosures

WV Army National Guard



**Expression of Interest
For
Engineering Services
For
Camp Dawson Waterline Utility Upgrade**

August 2024

Presented by:

NEW RIVER ENGINEERS, INC.



**501 Eagle Mountain Road
Charleston, WV 25311
(304) 342-7168**

**202 School Drive
Shrewsbury, WV 25015
(304) 595-3290**

**507 Richland Avenue, Suite 201
Athens, OH 45701
(740) 566-5699**

**3041 University Avenue, Suite 6
Morgantown, WV 26505
(681) 668-1809**

**156 Woodrow Avenue, Suite 2A
St. Clairsville, OH 43950
(740) 695-9977**

**WVARNG
CAMP DAWSON WATERLINE UTILITY UPGRADE**

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**WVARNG
CAMP DAWSON WATERLINE UTILITY UPGRADE**

EXPRESSION OF INTEREST

New River Engineers Inc. (NREI), formerly S & S Engineers, Inc., is pleased to express our interest in providing environmental, engineering, architecture, and surveying services to the West Virginia Army National Guard ("WVARNG"). Our team is a civil / environmental engineering firm and is noted for design excellence and client focus. Our team's integrated design approach, our commitment to design quality, as well as our architectural and construction experience will help to ensure the quality of services that we will provide to the WVARNG. Below, please find additional qualifications that make our team uniquely qualified to assist you with your potential needs:

We have a history of providing high quality design and engineering management services throughout West Virginia, Ohio, Kentucky, and Virginia. This quality has been recognized by the quantity of our repeat clients. We will use our engineering abilities and extensive design experience to aid the WVARNG as any need would arise.

As CEO of our firm, Mr. Jessie O. Parker, Jr., P.E. will lead projects for the WVARNG. Mr. Parker has a Bachelor of Science in Civil Engineering from WVU Institute of Technology and a Master of Science in Engineering from Marshall University. Mr. Parker has a vast amount of experience working in the municipal market and has spent his entire career in the utility / infrastructure sector of engineering. Mr. Parker will be assisted by Mr. Matt Shelton, VP, PM, Mr. Christopher Burford, COO, PM, Mr. Ashok Sanghavi, P.E., DEE, QEP, Mr. Randy Crace, P.S., Mr. Charles Kurzyna P.E., P.S., Mr. Eric Hartwell, P.E., Mr. Josh Cook, P.E., and the rest of our staff.

We have the training, experience, and multi-discipline support to meet the needs of our clients. Due to our small size, our Engineers and Architects become well rounded and deeply involved with each Project. Our Engineers and Architects are able to put their heads together to create an excellent working knowledge of projects, creating high quality, personalized, and professional services. We would like to thank you for this opportunity and if we can be of service to you in this matter, please don't hesitate to contact us at (304) 342-7168.



COMPANY PROFILE

NEW RIVER ENGINEERS, INC.

New River Engineers, Inc. (NREI) is an engineering, surveying, and consulting firm that has been providing quality service to our clients and the industries for over 43 years. Mutual respect and trust are the cornerstones in the relationships established and maintained with our clients. NREI strives to perform all work in a professional and cost-effective manner, while providing our clients with quality and excellence.

The firm is currently managed by Mr. Jessie O. Parker, Jr., P.E. - CEO and Mr. Christopher D. Burford - COO. NREI has successfully provided an integrated approach to utility projects for our clients. NREI provides professional services to facility owners and operators, architects, and contractors throughout Ohio, West Virginia, Kentucky, Virginia and North Carolina and many others. NREI services range through all facets of civil engineering design as well as construction administration and project management.

Our staff combines advanced technology with many decades of surveying, mining, and engineering experience and includes two professional engineers, one professional surveyor, four degreed engineers, AutoCAD/engineer technicians and ten full time survey crews.

As a full-service engineering and surveying firm, NREI can provide a whole host of services to our clients including, but not limited to the following:

- Construction Design
- Construction Management
- Construction Surveying
- Geotechnical Engineering & Drilling Management
- Environmental Permitting (WVDEP, NPDES, OAQ and USACOE)
- Underground / Surface Mine Engineering
- Underground / Surface Mining Surveying
- Civil Site Design / Engineering / Planning
- Drainage Design / Engineering / HECRAS
- Aerial Mapping
- Compaction Testing with Nuclear Density Gauge
- Subsurface Utility Locate Surveys with Ground Penetrating Radar & Pipe and Cable Locators
- Ohio DNR Environmental Permitting
- Oil & Gas Surveying
- Boundary & Property / Topographical Surveying
- GPS RTK & Static Surveying
- Reserve Studies



NREI remains committed to the idea of providing high quality, client focused, design solutions that meet budget and schedule requirements. This commitment to quality has been recognized through the long-term client relationships that we have developed. NREI has the qualified professionals available to provide services throughout the duration of a project from the initial planning phases through construction completion and beyond.

NREI utilizes the abilities of designers with many years of experience in their area of expertise, teamed with younger designers on a "best resource for the project approach". We also provide project management services at levels ranging from general oversight to complete project delivery through all phases of design and construction. Our personnel have worked in both the private and public sector and are familiar with many methods of project delivery.

NREI has developed the following philosophy to guide the performance of its services:

- Provide superlative design services to our clients in new construction, improvements, and daily operations.
- Perform work in a timely, accurate and professional manner.
- Present multiple alternatives and solutions whenever possible.
- Work with our clients to control project costs.
- Be a technical sounding board for our clients in all situations.
- Strive to maintain professional competency through continuing education and training.

NREI utilizes a practical application approach to all projects throughout the design process to provide a well-rounded result. This methodology emphasizes the best overall solution, meeting all the client's needs, instead of just the best technical solution. We believe our small size provides a distinct advantage to our clients and affords us the freedom to easily team with the clients to achieve the overall best possible result.



SCOPE OF WORK

The WV Army National Guard is in the process of obtaining the services of a consulting engineer to provide professional services in regard to the Camp Dawson Waterline Utility Upgrade.

The WVARNG is requesting, at a minimum the following services to be provided:

- Provide a complete design
- Provide drawings and specifications of all utility and road infrastructures
- Submit drawings and specifications at 35%, 65%, 95%, and 100%
- Cost estimates are to be revised and submitted at 35%, 65%, 95%, and 100%
- Provide construction bid services and administrative services

New River Engineers, Inc. (NREI) will provide any other services required by the WVARNG for the implementation of the projects.

PLAN OF APPROACH

New River Engineers, Inc. (NREI) has been serving various communities for over 43 years. NREI believes in offering personal services as well as professional services. The following is a draft approach from project conception through project completion of the services NREI can provide.

NREI believes in a team approach for the development of projects. Therefore, our first task will be to meet with WVARNG officials to review existing data, reports, etc., and to ascertain the need of the specific project. Following data gathering, we will then evaluate alternatives and develop a cost-effective proposal that meets existing and future needs of a specific project. Throughout the process, WVARNG officials will be kept informed and involved in all important matters.

NREI will assist the WVARNG in preparation and submission of any funding application needs. Once the funding has been secured, we will then begin to develop detailed engineering drawings and specifications for the project. As information is gathered, it will be reviewed with WVARNG officials to allow comment and coordination as the project progresses. The project engineer will be involved during all phases of developing a project, obtaining funding, design, and construction to assure coordination with WVARNG personnel, and regulatory and funding agencies.

PRELIMINARY ENGINEERING REPORT

Our next task will be the preparation of a Preliminary Engineering Report. Specifically, the report will be organized in accordance with regulatory and funding agency requirements as follows:

1. Introduction and Overview
2. Planning Area and Future Needs
3. Evaluation of the Existing Sidewalk
4. Proposed Improvements/Upgrades
5. Alternate Solutions
6. Cost Estimates – Capital and O & M
7. Environmental Issues
8. Public Participation
9. Final Plan Selection
10. Implementation

Prior to publication of the final report, all information will be shared and reviewed with WVARNG officials to assure that concerns are addressed.

DESIGN PHASE

NREI will prepare contract documents including plans and specification conforming to funding agencies requirements. Our design phase will be carried out as follows:

1. Define Existing Conditions
 - a. Assemble and evaluate data to eliminate conflicts and redundancy.
 - b. All major decisions regarding data will be discussed with WVARNG officials. Important data sources include, but are not limited to the following:
 - i. WVARNG Officials
 - ii. WV Department of Environmental Protection
 - iii. USDA Rural Development
 - iv. Soil Conservation Service
 - v. U.S. Corps of Engineers
 - vi. Local Citizens and Groups
2. Identify Project Work
 - a. Evaluate existing data, reports, and design drawings, if available
 - b. Evaluate existing site.
 - c. Evaluate environmental aspects.
 - d. Summarize existing problems and make presentation.
3. Preliminary Design
 - a. Preliminary layout of proposed project
 - b. Land surveys for mapping, rights-of-way, and / or land acquisitions
 - c. Coordination with the WVARNG, WVDEP, USDA-RD and WVDOH
 - d. Preliminary Cost Estimates
 - e. Preliminary review with the WVARNG
4. Final Design
 - a. Incorporate review comments from the WVARNG, WVDEP, USDA-RD, and other agencies
 - b. Prepare detailed specifications and final design report in accordance with state and federal guidelines.
 - c. Attend public meetings.
 - d. Prepare final cost estimates.
 - e. Secure permits from WVDEP, WVDOH, and other agencies
 - f. Prepare bid documents.
 - g. Conduct pre-bid conference.
 - h. Assist in advertising for bids, attend bid opening and assist in evaluation of bids with recommendations for awarding the construction of the project(s)

CONSTRUCTION PHASE

NREI will provide the following services during the construction phase of the project:

1. Administrative Services
 - a. Assist and advise the WVARNG in the preparation of construction contracts for signature(s)
 - b. Issue a "Notice to Proceed" to the appropriate Contractor(s)
 - c. Provide consultation and advise the WVARNG during construction
 - d. Preparation of elementary and supplementary sketches and / or drawings required to resolve problems arising from actual field conditions encountered.
 - e. Review and approve shop drawings, diagrams, illustrations, brochures, catalog data, schedules, and samples, results of tests and inspections, other data which the contractor(s) is required to submit, but only for conformance with the design concept of the Project and compliance with the information given in the contract documents.
 - f. Receive and review maintenance and operating instructions, schedules, guarantees, bond, and certificates of inspections which are to be assembled by the contractor(s) in accordance with the contract documents.
 - g. Review and approve requests for periodic and final payments to the contractor(s)
 - h. Issue certificates of completion to the WVARNG for completed construction contracts.
 - i. Review original drawings and provide to the WVARNG a digital copy on disk and two (2) sets of black line prints of "as-built" plans
 - j. Advise the WVARNG whether the project can meet the project performance standards.
 - k. Attend monthly meetings during the construction period.
 - l. Represent the WVARNG in technical matters and litigation, if required
 - m. Provide engineering services during start-up of the facility.
 - n. Provide training to WVARNG employees for the operation of the new facility.
 - o. Provide one (1) year project performance certification.
2. Field Services
 - a. A Qualified Design Professional will make periodic visits to the site to observe the progress and quality of the executed work, and determine, in general, if the work is proceeding in accordance with the contract documents.
 - b. Efforts will be directed toward providing assurance to the WVARNG that the completed project will conform to the requirements of the contract documents.
 - c. Make general monthly construction progress reports to the WVARNG.



- d. Observe initial operation of the project, or any performance tests as required by the specifications.
 - e. Make final inspection and report on the completed project.
 - f. Advise the WVARNG of any special test or necessary outside services that may be required to assist construction of the project.
 - g. On the date, one (1) year after the initiation of the operation of the project, a Professional Engineer shall certify to the WVARNG whether the project can meet the project performance standards in accordance with requirements for the project.
3. Resident Inspection Services During Construction
- a. A Resident Project Representative(s) will be furnished for each construction contract (as a minimum) to provide extensive representation at the project site during the construction phase.
 - b. Through more extensive on-site observations of the work in progress and field checks of materials and equipment by the Resident Project Representative(s), the WVARNG will be provided further protection against defects and deficiencies in the work
 - c. In addition to the general duties outlined above, the Resident Project Representative(s) will:
 - i. Observe the installation of approved materials and equipment and construction techniques and procedures in accordance with contract documents.
 - ii. Aid in public relations activities as the construction progresses through private property.
 - iii. Monitor the construction schedule and report conditions which may cause delay in completion.
 - iv. Review contract documents with the contractor's superintendent
 - v. Obtain necessary interpretations and transmit them to the contractor.
 - vi. Consider the contractor's suggestions and recommendations, evaluate them, and submit them with recommendations for a final decision.
 - vii. Attend field meetings as directed and report on the proceedings.
 - viii. Observe tests required by the contract documents, and record and report test procedures and, where applicable, the results
 - ix. Maintain records at the construction site in an orderly manner, including correspondence, change orders, supplementary drawings, requests for payment, and names and addresses of contractors, subcontractors, and principal material suppliers.



- x. Keep a journal or logbook recording time and activities related to the project, weather conditions, nature and location of work being performed, verbal instructions and interpretations given to the contractor, and specific observations, record any occurrence of work that might result in a claim for a change of contract sum or contract time, and maintain a list of visitors, their titles, and time and purpose of their visit.
- xi. Review applications for payment submitted by the contractor and forward them with recommendations for disposition.
- xii. Prepare a punch list as construction nears completion and inform contractor of items on punch list.
- xiii. Assist in final inspection of the work.

SPECIAL SERVICES

- 1. Land Surveys
 - a. Easements and right-of-way plat maps
 - b. Verify existing aboveground and underground utilities.
 - c. Construction stakeout of proposed improvements of connection with existing utilities
- 2. Attendance at Public Meetings to represent the WVARNG on technical matters.
- 3. Attendance at Technical Meetings with the WVARNG, DEP, etc.
- 4. Furnish technical assistance to the accountant and legal staff.
- 5. Provide technical testimony before courts and / or administrative hearings related to the project.

PROJECT EXPERIENCE

1. Berkley County PSSD, Berkley County, WV

- **Description:** Design of improvements at the wastewater treatment plant which included replacement of two pump stations and gravity sewer lines
- **Funding Source:** BCPSSD
- **Project Cost:** \$1,000,000
- **Project Status:** In Construction

2. Board of Sistersville, Tyler County, WV

- **Description:** Planning and design of improvements to the existing water lines, and connection to Tyler County PSD for water source and purchase
- **Funding Source:** WVIJDC
- **Project Cost:** \$4,550,000
- **Project Status:** In Construction

3. Syracuse – Racine Regional Sewer District, Meigs County, OH

- **Description:** Design of improvements at the wastewater treatment plant which included a new headworks system.
- **Funding Source:** SLFRF
- **Project Cost:** \$1,411,779
- **Project Status:** Awaiting Bid

4. City of Jackson, Jackson County, OH

- **Description:** Preparation of preliminary review drawing, design, permitting, and construction administration of the Mill Street sewer extension and water line improvements
- **Funding Source:** SLFRF
- **Project Cost:** \$1,006,174
- **Project Status:** Awaiting Bid

5. WVDOC Denmar Correctional Center, Pocahontas County, WV

- **Description:** Planning, design, and construction management of the replacement of two (2) water storage tanks with one 300,000-gallon water storage tank.
- **Funding Source:** WVDOC
- **Project Cost:** \$600,000
- **Project Status:** Completed March 2015

6. City of St. Marys, Pleasants County, WV

- **Description:** Planning, design, and construction management of Phase II which included replacement of water and sewer lines in several city blocks, one (1) water storage tank, street paving and related work.
- **Funding Source:** WVBPH-DWTRF & WVDEP-CWSRF
- **Project Cost:** \$7,740,000, completed project approximately \$550,000 under budget and used savings to purchase equipment

PROJECT EXPERIENCE

7. City of Sistersville, Tyler County, WV

- **Description:** Planning, design, and construction management of replacement of water lines on Virginia Terrace to provide fire protection to the elementary school and replacement of a 500,000-gallon water storage tank.
- **Funding Source:** SAP Grant & USDA-RD
- **Project Cost:** \$2,010,000, completed project approximately \$200,000 under budget and used savings to purchase equipment
- **Project Status:** Completed 2011

8. City of St. Marys, Pleasants County, WV

- **Description:** Planning, design, and construction management of Phase I which included replacement of water and sewer lines in 12 city blocks, replacement of an existing reservoir with a 500,000-gallon water storage tank and another 270,000-gallon water storage tank.
- **Funding Source:** USDA-RD
- **Project Cost:** \$5,000,000, completed project approximately \$320,000 under budget and used savings to replace all existing meters with radio frequency meters, purchase equipment
- **Project Status:** Completed 2010

9. Patriot Coal Corporation, Logan County, WV

- **Description:** Planning and design of a water line extension project which also included a water booster station and a 27,000-gallon water storage tank.
- **Funding Source:** Patriot Coal Corporation
- **Project Cost:** \$1,200,000
- **Project Status:** Completed 2010

10. Ellenboro-Lamberton PSD, Ritchie County, WV

- **Description:** Planning, design, and construction management of extension of water and sewer lines and a 150,000-gallon water storage tank to serve a proposed industrial park.
- **Funding Source:** ARC (Administered by USDA-RD)
- **Project Cost:** \$1,260,000, completed project approximately \$46,000 under budget and used savings to purchase equipment
- **Project Status:** Completed 2009

11. Northern Jackson County PSD, Jackson County, WV

- **Description:** Planning, design, and construction management of water line extension project which also included two (2) booster stations, and 130,000 gallon and 100,000-gallon water storage tanks.
- **Funding Source:** USDA-RD & IJDC
- **Project Cost:** \$5,200,000
- **Project Status:** Completed 2006

PROJECT MANAGEMENT

With over 100 years of combined professional experience, the project team will be made up of the following personnel, along with the rest of New River Engineers, Inc.

Jessie O. Parker, Jr., P.E. Email: jop@nreiww.com	Chief Executive Officer / Principal Engineer
Christopher D. Burford Email: cburford@nreiww.com	Chief Operating Officer
D. Matt Shelton Email: dms@nreiww.com	Vice President of Engineering / Project Manager
Ashok M. Sanghavi, P.E., DEE, QEP Email: a.sanghavi@s-s-eng.com	Senior Engineer
Charles "Chuck" B. Kurzyna, P.E., P.S. Email: ckurzyna@nreiww.com	Senior Engineer / Surveyor
Eric T. Hartwell, P.E. Email: eth@nreiww.com	Senior Engineer
Joshua D. Cook, P.E., PMP Email: jdc@nreiww.com	Senior Engineer / Project Manager
Randy B. Crace, P.S. Email: r.crace@nreiww.com	Senior Surveyor
Aaron Huston Email: abh@nreiww.com	Junior Engineer / Project Manager
Noah Julian Email: ngj@nreiww.com	Junior Engineer / Project Manager
Charles A. Morton, E.I.T./L.S.I.T. Email: cmorton@nreiky.com	Junior Engineer/Junior Surveyor
Dylan L. Walker, E.I.T. Email: dlw@nreiww.com	Junior Engineer
Md Ala Uddin, E.I.T., M. ASCE, M. SEI Email: mau@nreiww.com	Junior Structural Engineer





RESUMES OF KEY PERSONNEL



Jessie O. Parker, Jr., P.E.
CEO / Senior Engineer

Mr. Parker began his career in 2003 working on a variety of environmental projects throughout West Virginia, Kentucky, Ohio, and Virginia. Mr. Parker has served in the capacity of Engineer, Project Manager, and Principal in Charge for a variety of projects at S & S. This experience includes environmental, water supply, wastewater, storm water and drainage projects. Mr. Parker's responsibilities include planning, design, and construction administration.

Mr. Parker also has experience in grading plans, construction management, payment request approvals, quantity & cost estimates, and has worked with City, Town & PSD personnel, regulatory and funding agencies, as well as contractors.

Mr. Parker has proven to move projects forward in a professional, cost-effective, and timely manner. Has extensive knowledge of the state and federal water supply, and wastewater laws and regulations and is very familiar with federal and state grant and loan programs.

EDUCATION

Bachelor of Science

Civil Engineering
West Virginia University Institute of Technology
December 2002

Master of Science

Engineering
Marshall University
May 2006

CERTIFICATIONS

Environmental Site Assessment
Commercial Real Estate
December 2016

Professional Engineer (WV)
Professional Engineer (OH)
Professional Engineer (KY)
Professional Engineer (VA)
Professional Engineer (MD)
Professional Engineer (NC)
Professional Engineer (SC)
Professional Engineer (PA)
Professional Engineer (TN)

PROFESSIONAL AFFILIATIONS

Water Environment Federation
American Water Works Association
American Society of Civil Engineers
Society of American Military Engineers
West Virginia Rural Water Association
Contractors Association of West Virginia



Christopher D. Burford
COO / Project Manager
Green and Associates, LLC
New River Safety, LLC
Ellison Ridge Mining, LLC

Mr. Burford has been with NREI for over fifteen years. As the Project Manager, he oversees Surface and Underground Mining Permit Applications, is the Manager of Surveying Crews, manages State and Federal Safety Plans and Permits, oversees Construction Oversight & Construction Management, and Mine Planning.

Green and Associates, LLC, St. Clairsville OH – manager and supervisor of survey crews and office personnel, business development, and coordination with clients on various projects.

New River Safety, LLC, – manager and Supervisor of safety instructors, electrical inspectors, and office personnel, business development, and coordination with clients and government entities.

Ellison Ridge Mining, LLC – management and oversight of various sub-contractors over mining, reclamation, and civil site construction projects, business development, and coordination with clients and government entities.

EDUCATION

Associate of Science

Civil Engineering Technology
West Virginia University Institute of Technology
May 2004

CERTIFICATIONS

Certified Underground Coal Miner
Certified Surface Coal Miner
MSHA Certified Limited Instructor
MSHA Certified Gravimetric Dust Sampling
MSHA Certified Gravimetric Dust Calibration & Maintenance
Heartsaver First Aid, CPR & AED Certified
Safe Land USA PEC Safety
MSHA – Methane / Oxygen Deficiency Qualified
APNGA Portable Nuclear Gauge Safety &
USDOT Hazmat Certified
[REDACTED]
APNGA Certificate of Achievement
Radiation Safety Officer Class
[REDACTED]

PROFESSIONAL AFFILIATIONS

Contractors Association of West Virginia
West Virginia Rural Waters Association
West Virginia Coal Association
Friends of Coal Association



D. Matt Shelton

Vice President / Project Manager

Mr. Shelton began his career in 2004 working in civil engineering fields such as site development, water supply, wastewater, storm water and drainage. Also has experience in surveying, construction management, record keeping, quantity and payment reviews, inspection and site grading. Having worked with general contractors, subcontractors, community representatives and residents, he has developed solid techniques to move the projects in a professional, cost-effective and timely manner.

Experienced in site grading, surveying, quantity surveys, building layout, water & sewer system design and construction inspection on civil engineering projects.

Experience as Engineering Technician including design of water line extensions, water booster stations, water storage tanks, wastewater pump stations, sewer line extensions, manholes, drainage calculations, and preparation of quantity and cost estimates.

Experience as Survey Technician / Instrument man includes topographic surveys, construction stakeout for water & sewer systems and highways, building layout, cut sheets for sewer systems, GPS surveying for field control work, etc.

EDUCATION

Bachelor of Science

Civil Engineering Technology
West Virginia University Institute of Technology
May 2005

CERTIFICATIONS

Environmental Site Assessment
Commercial Real Estate
December 2016

PROFESSIONAL AFFILIATIONS

Water Environment Federation
Contractors Association of West Virginia



Ashok M. Sanghavi, P.E., DEE, QEP
Senior Engineer / Quality Control Officer

Over forty-six years of professional experience in civil engineering fields such as environmental, water supply, wastewater, solid wastes management, drainage, and mining. He has provided planning, design, construction management and technical expert testimony for environmental and general civil engineering projects. He has prepared Phase I environmental site assessments and carried out subsequent Phase II and Phase III remediation work. He has prepared environmental impact statements for state and federal highway projects. Having worked for the private industry as well as state government, he thoroughly understands both sides. He has extensive knowledge of the state and federal water supply, and wastewater laws and regulations and is also very familiar with federal and state grant and loan programs.

West Virginia State Health Department

- 1) Acting Chief, Wastewater Division
- 2) District Engineer
- 3) Water Supply Engineer

EDUCATION

Master of Science

Civil Engineering
West Virginia University
May 1970

Partial Course work for Ph.D.

CERTIFICATIONS

Professional Engineer (WV)

Diplomate - American Academy of
Environmental Engineers

Qualified Environmental Professional, IPEP

PROFESSIONAL AFFILIATIONS

Water Environment Federation
American Water Works Association
American Society of Civil Engineers
West Virginia Rural Water Association
Contractors Association of West Virginia

AWARDS

Arthur Sidney Bedell Award,
Water Environment Federation, 1993



Charles "Chuck" Kurzyna, P.E., P.S.
Senior Engineer / Senior Surveyor

Mr. Kurzyna has over 30 years of engineering and management experience in the mining industry and consulting business. He specializes in surface and underground mine design, planning, and surveying; environmental and safety permitting; project and construction management.

Project Manager for a consulting engineering firm, responsible for job estimates and bidding, supervise office staff in engineering related projects including surface mine surveying, reclamation and permitting, reserve studies, etc.

Chief Engineer for a small mining and construction company, responsible for mine planning, production tracking, construction job bidding, construction engineering, etc.

Chief Engineer, Senior Engineer for the Lady Dunn Surface Mine & Preparation Plant; coal reserve evaluations; project engineering for mine related facilities; environmental permits for large surface and deep mining operation; etc.

EDUCATION

Bachelor of Science

Mine Engineering Technology
West Virginia Institute of Technology
May 1979

Associate of Science

West Virginia Institute of Technology
May 1977

CERTIFICATIONS

Professional Engineer (WV)
Professional Engineer (OH)
Professional Engineer (PA)
Professional Engineer (VA)
Professional Engineer (KY)
Professional Engineer (GA)
Professional Surveyor (WV)
Underground Mine Foreman
Surface Mine Foreman

PROFESSIONAL AFFILIATIONS

Contractors Association of West Virginia
West Virginia Coal Association
Friends of Coal Association
Society of Mining Engineers



Eric T. Hartwell, P.E.
Senior Engineer

Mr. Hartwell joined New River Engineers, Inc. in January 2023, and has over 25 years of experience in planning, design, and construction of environmental projects. Mr. Hartwell has a background in the design and construction of wastewater treatment and collection systems, water treatment and distribution systems, and industrial oil water separators. Mr. Hartwell was an integral part of the design team for several wastewater treatment plant upgrade projects and over 70 pump stations ranging in size from 5 to 7000 gallons per minute. He has also been involved in the design of multiple water treatment plants and pumping stations. Mr. Hartwell has been involved with the design and construction of water storage tanks and pressure reducing valve stations. Mr. Hartwell has worked on environmental projects throughout West Virginia. Mr. Hartwell has served in the capacity of Engineer and Project Manager, throughout his career. This experience includes environmental, water supply and distribution, wastewater collection and treatment, water loss and infiltration and inflow reduction projects. Mr. Hartwell's responsibilities include planning, design, construction administration, preparation of operation and maintenance manuals and operator training.

Mr. Hartwell also has experience in construction management, payment request review and approval, quantity & cost estimates, and has worked with City & PSD personnel, and regulatory agencies, as well as contractors.

EDUCATION

Bachelor of Science

Civil Engineering
West Virginia Institute of Technology
December 1995

Master of Science

Civil Engineering
West Virginia University
December 1997

CERTIFICATIONS

Professional Engineer (WV)



Joshua D. Cook, P.E., PMP
Morgantown Engineering Manager / Senior Engineer
New River Engineers Inc.

Josh began his professional career in 2012 and has worked on a variety of civil engineering projects throughout West Virginia, Ohio, Virginia, Maryland, and Pennsylvania. During his career, Josh has served as Project Engineer, Project Manager, and Engineering Manager for Coal and Natural Gas Companies and Municipal Engineering Consulting Firms, including New River Engineers.

Josh has experience in Environmental Remediation, Groundwater Protection Plans (including Spill Prevention, Control, and Countermeasure Plans), Stormwater Permitting and Design, Construction Management, Water, Wastewater, Storm Water, and a variety of Natural Gas Experience.

Josh has been successful in managing a variety of projects to remain on-time, on-budget, and compliant.

EDUCATION

Bachelor of Science

Civil Engineering
West Virginia University Institute of Technology
December 2012

Master of Science

Engineering
Marshall University
May 2014

CERTIFICATIONS

Professional Engineer (WV)
Professional Engineer (OH)
Project Management Professional (PMP)

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers
West Virginia Rural Water Association
Business Networking International (BNI)
Project Management Institute (PMI)



Randy B. Crace, P.S.
Senior Surveyor

Mr. Crace began his career in 1983 working on a variety of surveying and engineering projects. Areas of concentration in boundary surveys, mapping, topography, subdivisions, annexations, right of ways, subdivision development, construction stakeout, aerial mapping controls, GPS-RTK survey control networks, oil and gas well locations, surface and underground mining permits, construction stakeout, hydrology, erosion and sediment control plans, storm water retention systems, site grading plans, parking lot layout, WVDOH driveway permits, Cad software programs, Geographic Information Systems, Phase I - ASTM environmental site assessment and expert witness testimony in the surveying field.

U.S. Army - SP4
Honorable Discharge - 1974

EDUCATION

Bachelor of Science

Industrial Technology
 West Virginia State College, Institute
 December 1989

Master of Science Environmental Studies
 MUCGS, Institute of WV Partial Course Work

CERTIFICATIONS

Environmental Site Assessment
 Commercial Real Estate Certification
 ASTM E-1527 & E-1528
 October 2001

ASTM E 1527-05 Phase I and USEPA AAI
 October 2006

ACSM Surveying Instrumentation and
 Coordinate Computation Certificate, 1978

Center College, Charleston, WV
 Technical Degree, Drafting – 1970

Professional Surveyor (WV)
 Professional Surveyor (KY)
 Professional Surveyor (OH)

PROFESSIONAL AFFILIATIONS

West Virginia Association of Land Surveyors
 American Congress on Surveying & Mapping
 National Society of Professional Surveyors
 American Institute of Architects, WV



Aaron B. Huston
Junior Engineer

Mr. Huston began his career at New River Engineers, Inc. in September 2019.

EXPERIENCE

JUNIOR ENGINEER

Responsibilities include site civil design, water, wastewater, & stormwater system design using Civil 3D. Projects include the development of multiple campgrounds with utilities and various water & sewer extension/ rehabilitation projects throughout West Virginia and Ohio.

Mr. Huston also has experience with permitting from various agencies including WVDEP, WVDHHR, WVDOH, OEPA, & local Railroads.

DENSITY TESTING INSPECTOR

Density Testing Inspector for Advance Testing Company, Inc. – Campbell Hall, NY, responsibilities included handling Nuclear density gauge and performing density testing on asphalt for a variety of projects in New Jersey.

EDUCATION

Bachelor of Science

Civil Engineering
West Virginia University May 2019

CERTIFICATIONS

APNGA Portable Nuclear Gauge
Safety & USDOT Hazmat
APNGA Certificate of Achievement
- Radiation Safety Officer Class
Qualified Preparer of Stormwater Pollution
Prevention Plans
Qualified Compliance Inspector of Stormwater
NYSHMA Density Testing Inspector
Certified QC/QA HMA Technician
OSHA

PROFESSIONAL AFFILIATIONS

Contractors Association of West Virginia



Noah Julian
Junior Engineer

Mr. Julian began his career at Alcon in 2021 working as a validation engineer on a variety of machines and processes for making intraocular lenses. Mr. Julian gained experience with PLC systems. This experience includes Allen Bradley systems, as well as PC Based systems. Mr. Julian also has experience with FDA guidelines and regulations for CSV systems, as well as the guidelines for installation, operational, and performance qualifications for equipment, whether it is new, retrofitted or revalidated. Mr. Julian's responsibilities include mechanical systems and design.

Mr. Julian also has experience with machine design, hydraulic system and component design for machines, 3D and 2D CAD drawings, and proficient with Microsoft Excel and VBA. Mr. Julian has also worked within MSHA guidelines for machines.

Mr. Julian has proven to move projects forward in a professional, cost-effective, and timely manner. He has extensive knowledge of machines and computers, as well as FDA and MSHA regulations.

EDUCATION

Bachelor of Science

Mechanical Engineering
West Virginia University Institute of Technology
May 2020



Charles A. Morton, E.I.T., L.S.I.T.
Junior Engineer/Junior Surveyor

Mr. Morton commenced his engineering career in 2015 through internships, which served as a strong transition to full-time employment in 2019. Since then, he has been extensively involved in various facets of engineering projects, encompassing construction, utilities, surveying, traffic signals, and site design. He has contributed to a diverse range of projects in Kentucky, and Tennessee.

Serving both Project Engineer and Design Engineer, Mr. Morton has demonstrated proficiency in a variety of disciplines. From site design to the telecommunication infrastructure, with understanding of engineering principles and practices. Also creating layouts for stormwater, wastewater, and electric in coordination with the local utilities for preference. This has assisted with ensuring the success of a wide range of projects. His responsibilities encompass planning, coordination, design, and construction administration.

In addition, Mr. Morton possesses strong skills in grading, construction inspection, and the preparation of quantity and cost estimates. He has collaborated with municipalities, regulatory agencies, funding bodies, and contractors. His proactive communication style and collaborative spirit foster strong partnerships with stakeholders, facilitating streamlined project workflows and timely deliverables.

Mr. Morton has consistently advanced projects in a professional, cost-effective, and timely manner. His extensive experience with AutoCAD and Autodesk significantly bolsters his diverse background and knowledge. Furthermore, he has leveraged his expertise by directly in engineering practice and as a professor. As a professor instructing students across various proficiency levels in the fundamental and advanced features of these programs.

EDUCATION

Bachelor of Science

Civil Engineering
University of Kentucky
December 2017

Master of Science

Civil Engineering
University of Kentucky
December 2019

CERTIFICATIONS

KYTC Utility Coordination Training and Certification (2022)

Engineer In Training (KY)
Land Survey In Training (KY)

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers
National Society of Professional Engineers



Dylan L. Walker, E.I.T.
Junior Engineer

Mr. Walker began his engineering career in 2019 through internships, which led to full-time employment in 2021. Since then, he has been greatly involved in various bridge and drainage structure projects, encompassing bridge evaluation, bridge inspection, and bridge load analysis. He has contributed to a diverse range of projects in West Virginia.

Serving as Junior Engineer, Mr. Walker has demonstrated proficiency in a variety of roles, and duties in several disciplines, from wastewater to structures, with an understanding of engineering principles and practices. His skills and experience have assisted with ensuring the success of a wide range of projects. His responsibilities encompass planning, permitting, coordination, and construction administration.

In addition, Mr. Walker possesses strong skills in construction inspection, bridge inspection, and the preparation of quantity and cost estimates. He has inspected, prepared reports, and performed load analyses for numerous bridges during his career.

He has also collaborated with municipalities, regulatory agencies, and contractors. His attentive communication style and hands-on approach foster strong partnerships with stakeholders, facilitating streamlined project workflows and timely deliverables.

Mr. Walker has consistently advanced projects in a professional, cost-effective, and timely manner. His experience with AutoCAD, Autodesk, and AASHTOBrR significantly bolsters his diverse background and knowledge.

EDUCATION

Bachelor of Science

Civil Engineering
West Virginia University
May 2021

CERTIFICATIONS

Engineer In Training (WV)

Safety Inspection of In-Service Bridges (NHI)

Fracture Critical Inspection Techniques for
Steel Bridges (NHI)

Stream Stability and Scour at Highway
Bridges for Bridge Inspectors (NHI)



Md Ala Uddin, E.I.T, M. ASCE, M.SEI
Junior Structural Engineer, NREI

Md Ala Uddin is a civil and structural engineer with over five years of professional experience. Since February 2024, he has been serving as a Junior Structural Engineer at NREI, where he specializes in structural analysis and design. His expertise includes the design and analysis of various structural components, making him an asset in his field.

Professionally, Mr. Uddin has significant experience designing abutments, piers, micro-piles, piles, and retaining walls for bridges and roadways. He also possesses expertise in cost estimation, production rates, and subcontract cost comparisons, which are essential for preparing bid packages. His comprehensive skill set ensures the efficient and effective completion of complex engineering projects.

Before his current role, Mr. Uddin served as a Junior Structural Research Consultant at the Housing and Building Research Institute in Dhaka, Bangladesh. There, he analyzed and designed new building structures, reviewed existing as-built drawings, and assessed the vulnerability and structural integrity of building structures. His responsibilities included conducting various structural tests, such as flat plate tests for concrete slabs, brick-triplet tests, and concrete cylinder and cube tests. Additionally, as an Assistant Structural Designer at Shaheedullah and New Associates Ltd., he designed and analyzed high-rise buildings, managed concrete core testing, retrofitted building structures, estimated costs, managed construction sites, and coordinated project reports. For structural analysis and design, he has expertise in using design software such as STAADPro, ETABS, SAP-2000, ABAQUS, and AutoCAD for drawing.

EDUCATION

Doctor of Philosophy (2021 to present)

Civil Engineering, West Virginia University

Master of Science (July 2021)

Civil-Structural Engineering
Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh

Bachelor of Science (Sept. 2017)

Civil Engineering
Bangladesh University of Engineering and Technology, Dhaka-1000, Bangladesh

CERTIFICATIONS

Engineer In Training (EIT)

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers (ASCE)
Structural Engineering Institute (SEI)

CLIENT REFERENCES

Mr. Ian Wise, Board President
Syracuse-Racine regional Sewer District
P.O. Box 201
Racine, OH 46771
(740) 949-2416

Mr. Jeremy Lewis, General Manager
Nitro Regional Wastewater Utility (City of Nitro)
P.O. Box 607
Nitro, WV 25143
(304) 755-3669

Mr. Jacob Pack, Executive Director
Kanawha Public Service District
P.O. Box 8
Cabin Creek, WV 25035
(304) 595-2203

Mr. Rob Palmatier, Capital Projects Manager
Berkeley County Public Service Sewer District
P.O. Box 944
Martinsburg, WV 25402
(304) 263-8344

Mr. Josh Perdew
TC Energy
700 MacCorkle Avenue, SE
Charleston, WV 25314-1515
(304) 722-8608

Mr. Jamie Hake
Allegheny Contracting, LLC
13374 Boot Jack Road
Ridgway, PA 15853
(814) 772-2525

Mr. Marty Blankenship, Fire Chief
Glasgow Fire Department
119 Tompkins Avenue
Glasgow, WV 25086
(304) 421-5101

Hon. Randy Evans, Mayor
City of Jackson
145 Broadway Street
Jackson, OH 45640
(740) 286-3492

Hon. Joetta Hatfield, Mayor
Town of Fort Gay
P.O. Box 336
Fort Gay, WV 25514
(304) 648-5246

Hon. Bill Rice, Mayor
City of Sistersville
200 Diamond Street
Sistersville, WV 26175
(304) 652-6361

Mr. John McNew
United Coal Company
109 Appalachian Dr.
Beckley, WV 25801
(304) 550-2324

Mr. Edward Brown
Blackhawk Mining, LLC
3228 Summit Square Place
Lexington, KY
(304) 590-2487

Mr. Bran Worley
Contoura Energy, LLC
208 Business Street
Beckley, WV 25801
(304) 929-6626

SAFETY

In today's ever-changing workplaces, we place safety as an utmost necessity for all employees. We are fully committed to provide our employees with knowledge and training to complete all tasks in a professional manner and to prepare them with a safe and hazard free work environment.



OUR TEAMING PARTNERS



Tempo Construction, LLC



Larson Design Group®

Larson Design Group



American Geotech, Inc.



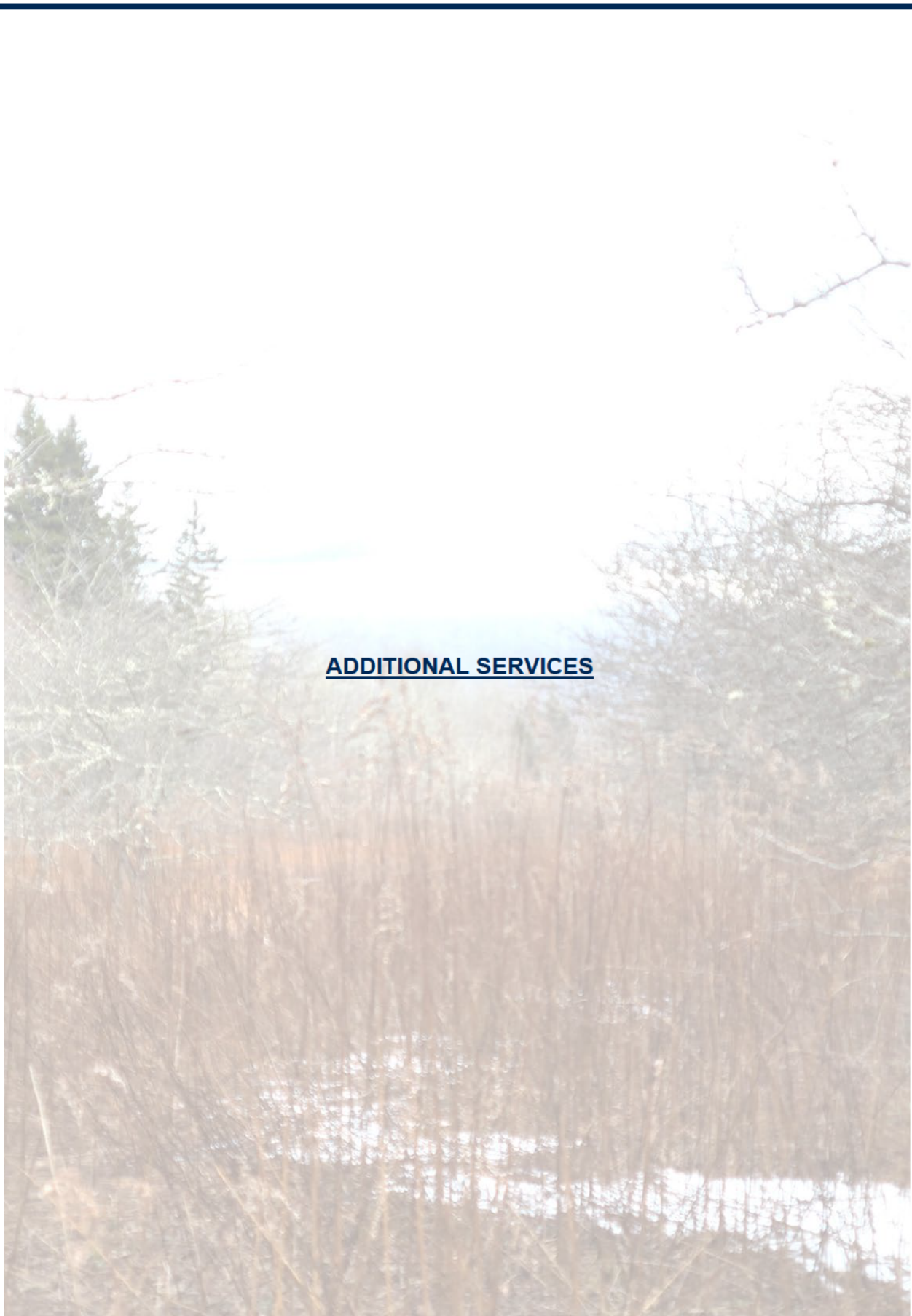
Carr Excavating



Allstar Ecology



Airport Design Consultants, Inc.



ADDITIONAL SERVICES

Water Supply, Treatment, Storage, and Distribution Systems

With over forty years of experience, we are your one stop shop for water supply, treatment, storage, and distribution systems. We implement our four-step process to each project to develop a better understanding of our client's needs and expectations: 1. Preliminary Engineering Report; 2. Design Phase; 3. Bidding Phase; 4. Construction Administration. We are "hands on" during all phases to ensure our clients obtain what they want in every project.

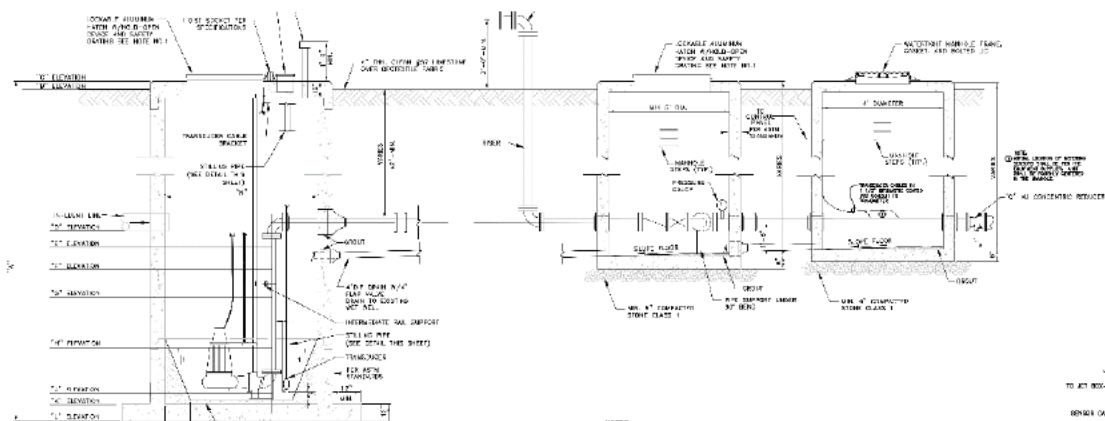
As a locally owned "small family" consulting firm, our clients get more for their money and receive more one-on-one time with our employees, which yields a more pleasurable experience. We excel in helping our clients ascertain funding from various governmental agencies to assist in the financing of the project.



Wastewater Collection & Treatment Systems / Industrial and Hazardous Waste Treatment Systems

We recognize the importance and understands the hurdles that our clients must maneuver to offer wastewater service to their customers. We have a proven track record with a vast knowledge of local conditions and an excellent reputation with all regulatory, funding, permitting, and enforcement agencies. Our crew, from CAD Techs to the President, is included in all phases of the project. We have the knowledge and capacity to carry out the workload in a timely manner.

We have a full understanding of wastewater systems from small treatment facilities to municipalities, all the way to industrial wastewater systems. We are thoroughly knowledgeable in obtaining federal, state, and local funding, and are available to you 24/7. We will see your projects from conception to completion.



Construction Management and Civil Site Design

We have been providing construction engineering solutions to our clients, including towns and municipalities for a combined total of over 60 years. We have established ourselves as one of the leading consulting firms in the area, and our experienced staff is committed and dedicated to your project from the initial site design and bid package development to inspections and certification.

We also offer Civil Site Design services including sub-division layouts, commercial development and design, HCA project areas, well pads, impoundments, street paving, drainage control, solid waste landfill, and impoundment design. We know and understand the value and importance of properly designed sites that offer the most cost effective and beneficial for our clients. Construction Management and Civil Site Design services include, but are not limited to the following:

- 3D Site Design
- Haulage & Access Road Design
- Excess Spoil Disposal Site Design
- Drainage Design and Runoff Calculations
- Solid Wastewater Management and Land Fill Design
- Subdivision Design and Permit Applications
- Site Development Plans
- Pre, During, & Post Construction Surveying
- HECRAS Modeling
- Stability analysis
- Site inspections / Project Management
- Certifications
- Cost Estimates
- Subdivision Design
- Street Paving Design and Drainage Control
- Construction Management
- Earth work quantity Estimates
- Construction Staking
- Concrete Testing and Inspection

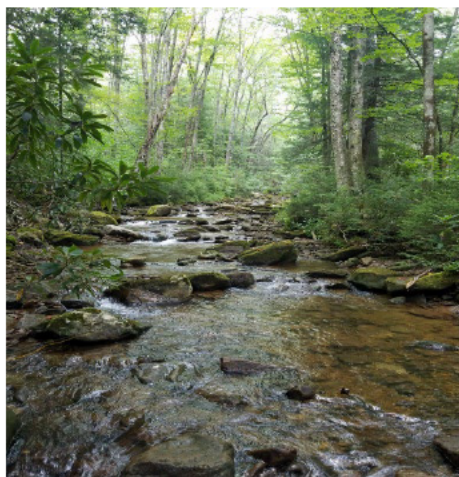


Environmental Permitting

Environmental permitting has become a complex and confusing landscape. We have an efficient and thorough team of environmental consultants making sure permitting, regulatory compliance, construction monitoring, and biological surveying are done with the utmost quality and cost effectiveness. This will save your project time and money from the start and avoid costly delays in the future. Compliance with Clean Air and Water Acts, NEPA, and other state and federal requirements is invaluable to every project. Our attention to detail and practical solutions to complex issues are second to none. Our environmental permitting team will make sure once your project is off the ground, it stays there! Environmental Permitting services include but are not limited to the following:

Environmental Permitting services

- Storm Water Permitting, Design, and Management
- Water Quality Monitoring
- Flood Plan Determination and Flood Elevation Certificates
- Groundwater Protection Plans
- Stream & Wetland Delineation
- Spill Prevention Control & Countermeasures Plan (SPCC)
- Article 3 Mining Permits
- Article 11 NPDES Permits
- West Virginia 401 Certification Permitting
- Wastewater Permitting, Design, & Management
- Clean water Act Section 402 Permitting (NPDES Permit)
- United States Army Corps of Engineers 404 Permitting
- Air Quality Permitting
- Best Management Practices (BMP) Planning



Environmental Permitting (Cont.)

Environmental Permitting Services

- Ohio State Historic Preservation Office (SHPO)
- National Environmental Policy Act (NEPA)
- US Environmental Protection Agency (EPA)
- National Conservation Planning Partnership (NRCS) & Forest Service
- United States Department of Agriculture (USDA) – Rural Development
- West Virginia Public Lands
- WV Department of Natural Resources (DNR)
- US Fish & Wildlife
- WV Culture & History
- Ohio Department of Natural Resources (DNR)
- Ohio environmental Protection Agency (DNR)
- Ohio Environmental Protection Agency (EPA)
- Ohio Public Works Commission (OPWC)
- Ohio Department of Commerce/Division of Industrial Compliance
- Virginia Department of Environmental Quality (DEQ)
- Federal Aviation Administration (FAA)
- EPA & WV DEP Compliance
- Environmental Site Assessment
- Local Agency Building / Construction

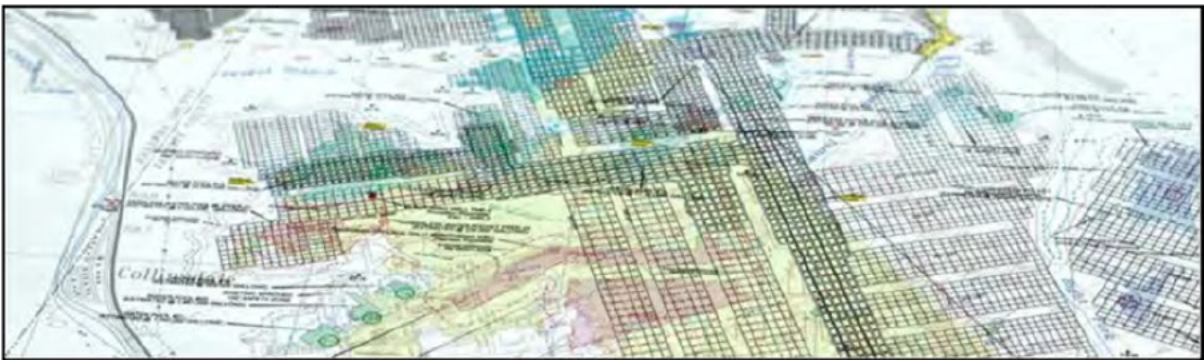


Mining Engineering

We are a full-service surveying, engineering, and consulting firm with deep roots in the mining industry of southern WV. Our qualified staff of professional engineers, engineering technicians, and professional surveyors have decades of combined experience in the field of mining engineering. We have established ourselves as one of the areas' leading mining engineering firms – specializing in both surface and underground mine design / planning; surveying; environmental and safety permitting; and project / construction management. We put the focus on identifying the needs of clients and providing cost-effective solutions with real results.

Mining Engineering Services

- Coal Reserve Analysis and Evaluation
- Surface Mine Design and Planning
- Mine Surveying and Mapping
- MSHA / WVOHS&T Permitting
- Ventilation Plans
- Roof Control Plans
- Mining Under Bodies of Water (1716 Permit)
- Horizontal Drilling
- Methane and Dust Control (MMU Plan)
- West Virginia Mineral Tax Appraisal
- Returns
- Pre-Blast Surveys
- Prospecting Permits & Releases
- Slope Stability Analysis
- Reclamation & Revegetation Planning
- Valley Fill Certifications
- Drainage Certifications
- Ventilation Plans
- MSHA Compliance
- MHS&T Compliance



Oil & Gas Engineering

The natural gas boom in the US has brought a wealth of opportunity for energy companies in the United States. We have answered the call of these companies by providing solutions to the unique design, permitting, and environmental needs of the ever-evolving Oil and Gas Industries

Oil and Gas engineering requires a unique approach to project development that differs from mining engineering. Our experienced staff is available to consult with clients on the most practical and cost-effective manner of addressing oil and gas engineering concerns. With a professional staff encompassing surveying, AutoCAD, professional engineers, and engineering technicians – we have the capacity to tackle the most complex oil and gas engineering projects

Oil and Gas Engineering Services

- Gas Well Plats and Permits
- Well Location and Stakeout
- Site Design
- Gas Line Surveys
- Unit Surveys
- HCA Project Areas
- Right-of-Way
- Impoundment Design, Construction, and Certification
- Access Road Design and Stakeout
- Construction Layout and Oversight
- Pumps & Water Line Design



Geotechnical Engineering

We have professional engineers and engineering technicians with extensive geotechnical engineering experience. We specialize in compaction testing, foundation design, slope failure remediation and embankment design. We put the focus on identifying the needs of clients, and providing cost-effective solutions with real results

Geotechnical Engineering Services

- Drilling Oversight, Management, and Inspection
- Slope failure Remediation
- Slope Stability Analysis
- Gabion Basket Wall Design
- Compaction Testing
- Foundation Design
- Embankment Design
- Drainage Analysis
- Soldier Pile Wall Design



Structural Engineering

We offer a full range of structural engineering services to help meet the needs of our clients. In addition to professional training, our structural capabilities are bolstered by a depth and breadth of experience developed through solving unique and complex engineering challenges. We have experience with projects in the private, public, commercial, and industrial sectors. Whether designing new structures, retrofitting existing structures, addressing overstressed conditions, or assessing structural integrity, our clients can rest assured that we are capable of meeting their specific needs.

Structural Engineering Services

- Structural Analysis
- Steel Structures and Building Enclosures
- Modular Design
- Pilings and Foundations
- Concrete Containment Structures
- Retrofit of Existing Overstressed Structures
- Building Permits and Code Analysis
- Bridge Cranes, Monorails, Jibs, etc.
- Truck/Rail Unloading Stations
- Lifting Beams and Rigging
- Industrial Architectural Design
- Structural Inspections and Assessments



Surveying

We have established ourselves as one of the area's leading surveying firms with our 40+ years of experience in property, boundary, and topographic mapping. Our staff is skilled in courthouse research, finding property evidence, providing quality property surveys, and construction stake-outs.

Additionally, we offer aerial mapping utilizing drone surveys. Our aerial mapping has been proved to be invaluable for construction progress mapping, well pad progression, subdivision layouts, and civil site designs. Surveying services include, but are not limited to the following:

- Property Abstract & Research
- Boundary Surveys
- Survey Plats
- Subdivision Design & Layout
- Construction Surveying & Stakeout
- Underground Mining Surveying
- Right-of-Way & Land Acquisition
- GPS Services
- Aerial Mapping / Control
- Drone Flight & Surveying
- Topographical Surveys
- ALTA / ACSM Land Title Surveys
- Unit Surveys
- Surface Mining Surveying
- Computer Mapping
- GIS Services



Subsurface Utility Survey

We use some of the most advanced technology in Ground Penetrating Radar (GPR), pipe and cable locators, and smoke testing machines to accurately survey, map and inspect subsurface utilities. These services have been extensively used by our clients in the construction, oil, and gas industries, as well as public service districts. Subsurface Utility Survey services include, but are not limited to the following:

- Pipe and Cable Location
- Sewer Line Smoke Testing
- Ground Penetrating Radar (GPR)
- Internal Video Pipe Inspection



Fiberoptic Broadband Services

We team with Mountain State Fiber and Alpha Technologies company which is a registered WV CLEC and was founded in 2000 specializing in Wide Area and Local Area Networks. Mountain State Fiber and Alpha Technologies is headquartered in Hurricane, WV.

Working with a full service fiber optic firm, New River Engineers Inc. (NREI) and Mountain State Fiber can provide a whole host of services to our clients including, but not limited to the following:

- Build Specifications based on network
- PONs
- Metro Ethernet
- Support for Tier 1-3 Helpdesk— Technical questions, Network Outages, Internet engineering and routing
- Regulatory—Federal: FDOF, USAC, Erate, USDA; State: CLEC, PSC
- Complete understanding of Pole Attachment Process

Resources	Security Audits	Support	Regulatory
<ul style="list-style-type: none"> •Professional Engineers •Professional Surveyors •Network Engineers •Build Specifications based on network •PONs •Metro Ethernet •Ground Penetrating Radar •GIS Analyst 	<ul style="list-style-type: none"> •HIPPA - Healthcare •SOC I and II •PCI – Credit Cards •FISMA 	<ul style="list-style-type: none"> •Tier 1 Helpdesk – Address basic customer technical questions •Tier 2 Helpdesk – Network Outages and support •Tier 3 Helpdesk – Internet engineering and routing 	<ul style="list-style-type: none"> •Federal •RDOF •USAC •Erate •USDA •State •CLEC •Interaction with PSC •Complete understanding of Pole Attachment Processes

mountain state
fiber



Funding Assistance

We provide assistance for our clients in the preparation of grant/loan funding applications. We will represent our clients and coordinate with the various funding agencies to obtain a favorable funding package. Once the funding has been secured, we will then begin to develop detailed engineering drawings and specifications for the project. Funding Sources can include, but are not limited to the following:

- West Virginia Infrastructure and Jobs Development Council (WV IJDC)
- West Virginia Water Development Authority (WV WDA)
- West Virginia Bureau of Public Health – Drinking Water Treatment Revolving Fund (WV BPH-DWTRF)
- West Virginia Department of Environmental Protection – Clean Water State Revolving Fund (WV DEP-CWSRF)
- Appalachian Regional Commission (ARC)
- United States Department of Agriculture Development Loans (USDA-RD)
- Housing and Urban Development – Community Development Block Grant (HUD-CDBG)
- West Virginia Environmental Protection Agency (Ohio EPA)
- West Virginia Rural Community Assistance Program (Ohio RCAP) – Funding Assistance
- United States Army Corps of Engineers (USACOE)



Technical Expert Testimony

With over forty years of professional engineering experience, we are more than capable of providing expert witness testimony to our clients should a need arise. We have multiple registered professional engineers in various disciplines, and these professionals are licensed throughout the United States. We are more than willing and ready in an utmost resolute manner to defend our clients and ensure that their interests are represented in the courtroom



